

# Indra Avitech's Digital NOTAM



Paves the way to  
digital, reliable and  
quality-assured  
Aeronautical  
Information

# Digital NOTAM

## Towards the digitalization of the Air Information Management solutions

### NOTAM: Current situation and challenges

NOTAM (Notices to Airmen) Messages are essential to disseminate short-term, short-notice, information about potential hazards along the aircraft's route including temporary flight or airspace restrictions, closed or otherwise unavailable runways and taxiways, and other obstructions.

The current NOTAM system presents the following challenges to the Air Traffic industry:

- Information overload: The high accumulation of NOTAM messages makes it difficult to filter out irrelevant information.
- Misinterpretation: NOTAM messages use only upper-case characters; and overuse abbreviations, making NOTAMs difficult to interpret.
- Time consuming to process: NOTAM messages are not fully machine readable and require significant effort to process.

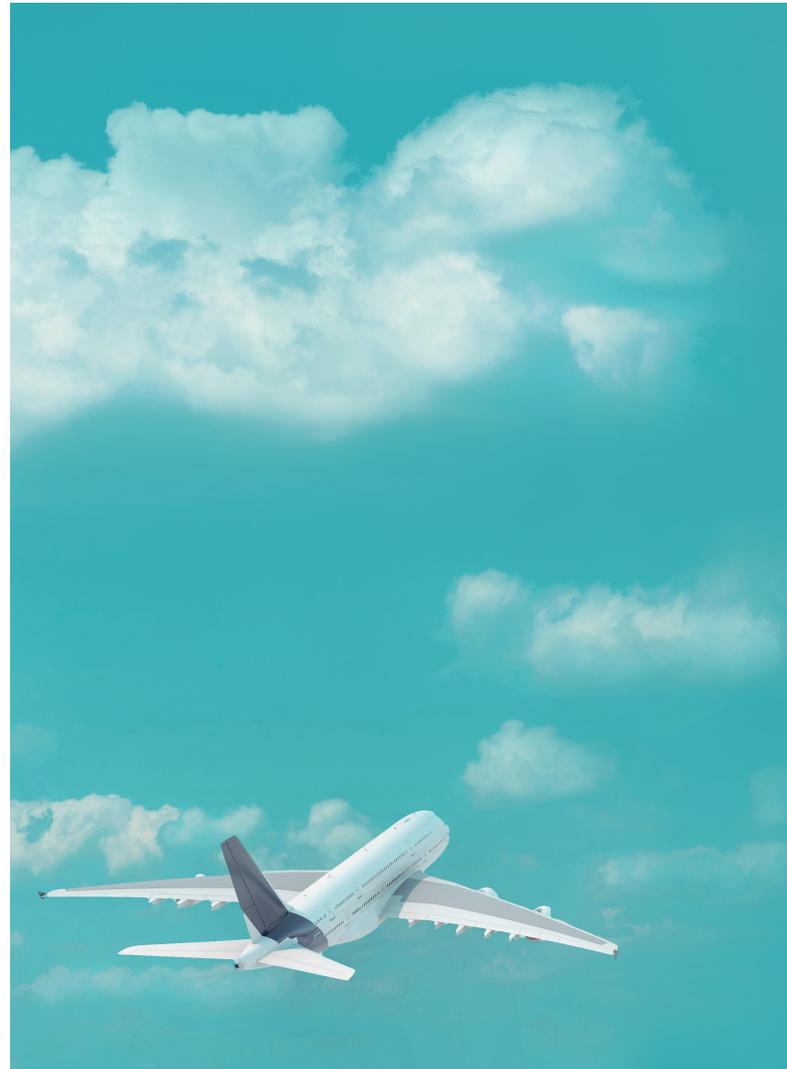
To overcome these difficulties, ICAO envisaged the concept of **"Digital NOTAM"**.

### Digital NOTAM

A Digital NOTAM is a data set made available through digital services containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to systems and automated equipment used by personnel concerned with flight operations.

### Main features

- Tools for creating new Digital NOTAM, using specialized interfaces for each Event Scenario, following the EUROCONTROL Digital NOTAM Specification.
- Approved events through a SWIM information service to external applications.
- Highly modular and flexible solution.
- Integration of system components from different vendors via SWIM.



### Benefits of Indra Avitech's Digital NOTAM

- Streamlines the NOTAM production and distribution.
- Reduces information overload through advanced filtering of information relevant to the flight.
- Minimizes misinterpretation by presenting information visually and as a normal text.
- Distributes both Digital NOTAM and ICAO text NOTAM in parallel.
- Ensures that each Digital NOTAM is processed following Quality Assurance requirements by using built in Workflow Management.

# Indra Avitech's Digital NOTAM

Indra Avitech developed a web-based application for visualization and origination of airport-related temporal events and airport infrastructure status changes like runway closure, or ad hoc temporal obstacles.

**Digital Event Overview**

2022-04-07 | 2022-07-31

Map navigation: Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec, Jan, Feb

**Selection**  
Event Name: TWYCLS Scenario: TWYCLS

**Clear Selection**

**Event**  
Event Name: TWYCLS  
Valid from: 2022-05-18 06:30:00 | Valid to: 2022-05-18 16:30:00  
Event Name: Referenced Taxiway/Taxiway Element  
Taxiway/Taxiway Element: Referenced Taxiway/Taxiway Element  
Closure Reason: Maintenance  
Note: [Empty field]

**Excepted Operation**  
Operation: TAXIING - Aircraft taxiing all  
Prior permission: [Empty field]  
Prior permission details: [Empty field]

**Aircraft**  
Aircraft Type: Ultra light  
Engine: [Empty field]  
Wing Span: [Empty field]  
Wing Span Interpretation: [Empty field]  
Weight: [Empty field]  
Weight Interpretation: [Empty field]

**Schedules**  
Schedule: [Empty field]  
Excluded date: Monday  
Start Day: [Empty field]  
End Day: [Empty field]  
Start Time: 10:00  
End Time: 11:00  
Start Event: [Empty field]  
End Event: [Empty field]  
Start Time Relative Event: [Empty field]  
End Time Relative Event: [Empty field]

ID	Title	Event Status	Effective from	Valid to	Created by
CR-00071	TWYCLS	Submitted for Approval	2022-04-18 09:30:00	2022-05-18 16:30:00	event_ordinator
CR-00070	TWYCLS	Reviewed for Approval	2022-04-18 09:30:00	2022-04-18 14:45:00	event_ordinator
CR-00069	RWYCLS	Valid + Digital NOTAM Proposal	2022-04-18 09:30:00	2022-04-18 10:00:00	event_ordinator
CR-00068	APPLCLS - Replacement	Valid + Digital NOTAM Proposal	2022-04-14 12:48:00	2022-04-28 22:59:59	event_ordinator
CR-00064	ADJCLS_TBSTC - Cancellation	Saved as Draft	2022-04-01 19:00:00	2022-04-02 14:10:00	event_ordinator

Records from 1 to 5 Total records: 5 | Page 1 of 2 | Generated: 2022-05-19 11:50:44 | Records per page: 5

**indra Avitech** | **Event**

Name: TWYCLS Scenario: TWYCLS > Event

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**Taxiway Closure [TWYCLS]**

Valid from: 2022-05-18 06:30:00 | Valid to: 2022-05-18 16:30:00

Event Name: TWYCLS

Referenced Taxiway/Taxiway Element: Referenced Taxiway/Taxiway Element  
Taxiway Element: UUD-465dbd1-3844-476-c364-353419148d9f Designator: W2 Designator: EIDW Name: DUBLININTERNATIONAL

Closure Reason: Maintenance

Note: [Empty field]

**Excepted Operation**  
Operation: TAXIING - Aircraft taxiing along movement area  
Prior permission: [Empty field]  
Prior permission details: [Empty field]

**Aircraft**  
Aircraft Type: Ultra light  
Engine: [Empty field]  
Wing Span: [Empty field]  
Wing Span Interpretation: [Empty field]  
Weight: [Empty field]  
Weight Interpretation: [Empty field]

Add Aircraft | Add Flight | Add Other Combination

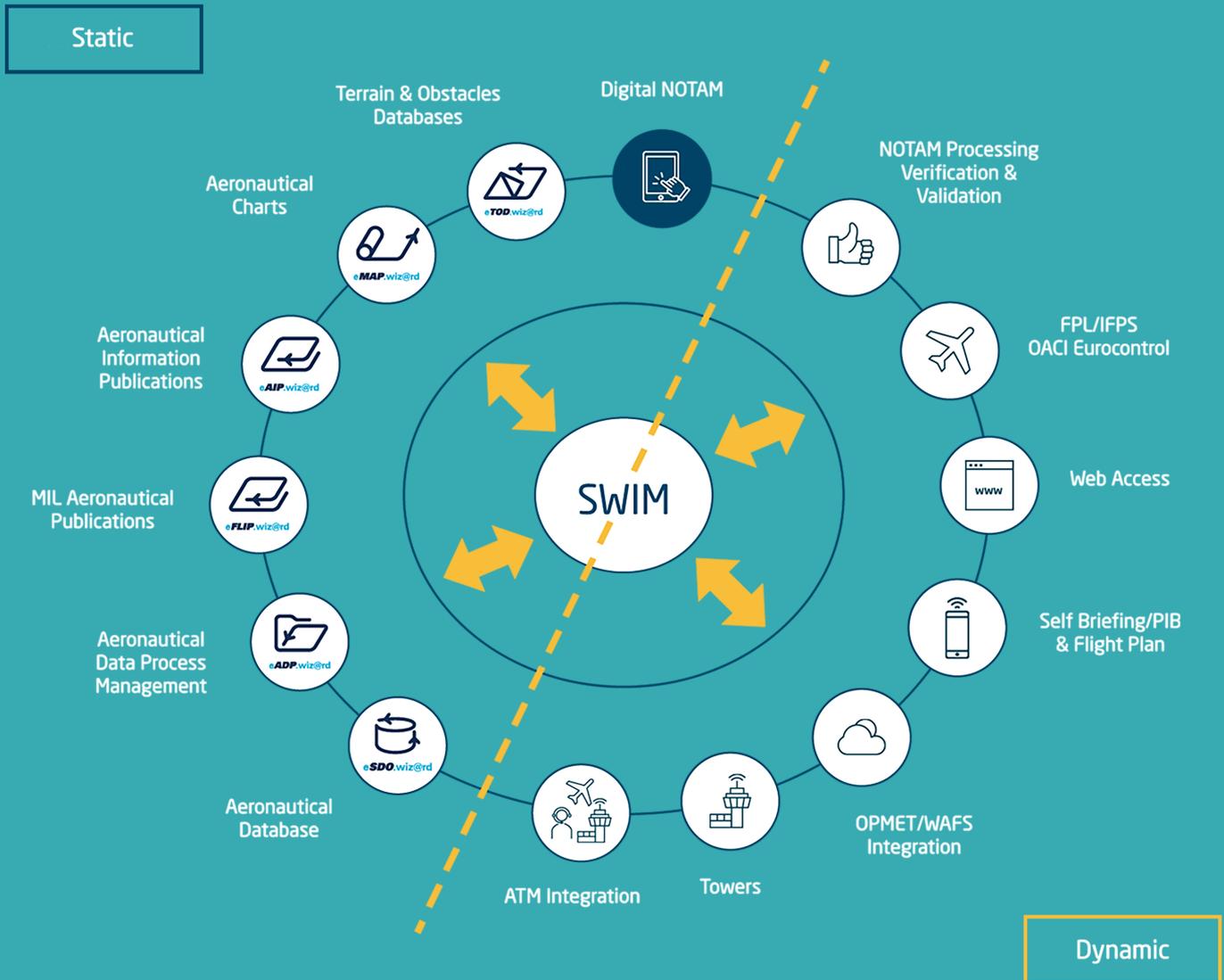
**Schedules**  
Duty | Date based | Day of the week based  
Schedule: [Empty field]  
Excluded date: Monday | End Day: [Empty field]  
Start Day: [Empty field] | Start Time: 10:00 | End Time: 11:00  
Start Event: [Empty field] | End Event: [Empty field]  
Start Time Relative Event: [Empty field] | End Time Relative Event: [Empty field]

Add Schedule

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**ICAO NOTAM**  
Q) L3AR/QIXL/TWY/CA/000/999/51289006148005  
A) EIDW S) 2205180630 C) 2210181630  
D) 0000 1000-1100  
E) TWY W2 CLOSED DUE TO MAINTENANCE. EXCEPT ULTRA LIGHTS.

# Integrated with other Indra Avitech's systems





# Digital NOTAM will ensure that pilots will receive information relevant to their flight routes

## EUROCONTROL Airport Data Toolkit

The Indra Avitech Digital NOTAM Origination Portal was selected to participate in the EUROCONTROL Airport Data Toolkit trial to demonstrate collaborative workflows based on digital data sharing using information services to support information exchange and SWIM enabled applications.

More information: [https://ext.eurocontrol.int/axm\\_confluence/display/ADTKIT/Overview](https://ext.eurocontrol.int/axm_confluence/display/ADTKIT/Overview)



## Airport Data Toolkit

 Co-financed by the Connecting Europe Facility of the European Union

### About Indra Avitech

Indra Avitech represents the Center of Excellence within the Indra Group for AIM, MHS, SWIM and MET, complementing the Indra ATM offering worldwide. The Indra Group's global business model is based on high-end innovation and technology, currently supporting 4000 air traffic control installations in over 160 countries

Creating  
skies  
together

We guarantee  
the right  
Aeronautical  
Information  
at the right  
time

Indra reserves the  
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